Center Independent Research & Development: GSFC IRAD

In-depth Composition Investigation

Completed Technology Project (2014 - 2015)

Project Introduction

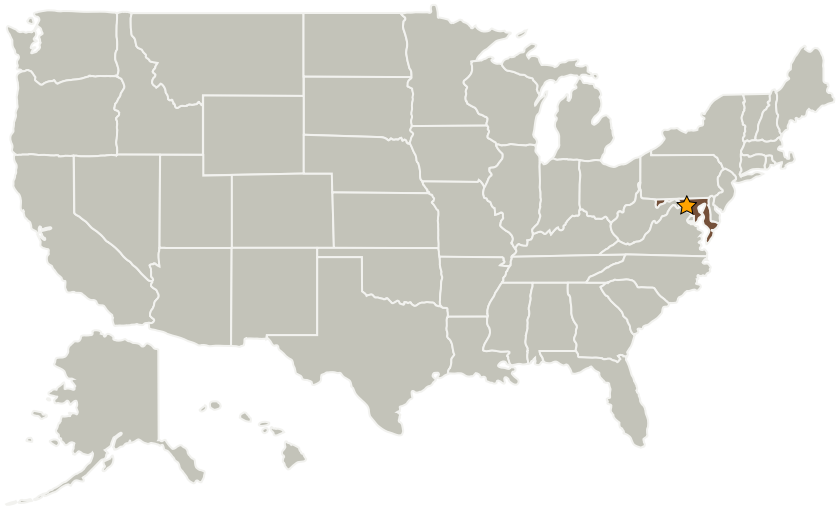
The ICI mission concept provides a new approach for investigating unique planetary atmosphere in a thorough manner which will greatly increase our scientific knowledge of planets.

The ICI mission concept is to provide a means to analyze the environments at multiple locations and altitudes to determine its constituents and behaviors.

Anticipated Benefits

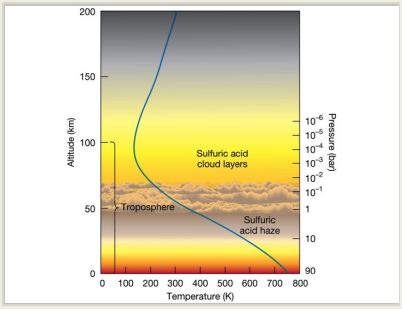
This project could benefit future missions

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★Goddard Space Flight Center(GSFC)	Lead Organization	NASA Center	Greenbelt, Maryland

Primary U.S. Work Locations
Maryland



Representation of Atmosphere of Venus

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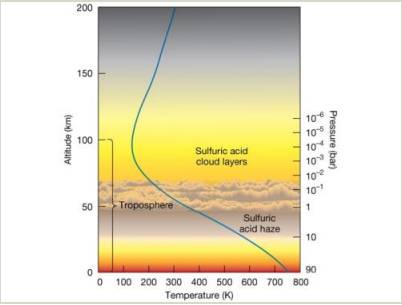
Images



Representation of Atmosphere of Venus
Representation of Atmosphere of Venus
(https://techport.nasa.gov/image/4156)

Links

NTR 1438288584
(no url provided)

Project Website:

http://sciences.gsfc.nasa.gov/sed/

Organizational Responsibility

Responsible Mission Directorate:
Mission Support Directorate (MSD)

Lead Center / Facility:
Goddard Space Flight Center (GSFC)

Responsible Program:
Center Independent Research & Development: GSFC IRAD

Project Management

Program Manager:
Peter M Hughes

Project Manager:
Dennis W Woodfork

Principal Investigator:
Lloyd R Purves

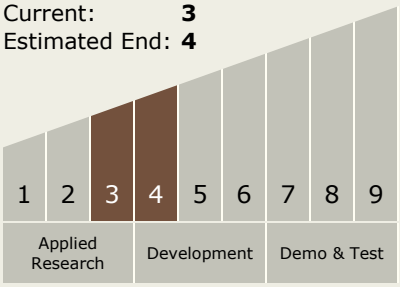
Co-Investigator:
James B Garvin

In-depth Composition Investigation

Completed Technology Project (2014 - 2015)

Technology Maturity (TRL)

Start: **3**
Current: **3**
Estimated End: **4**



Technology Areas

Primary:

- TX04 Robotic Systems
  - TX04.2 Mobility
    - TX04.2.4 Surface Mobility